

## ABSTRACT

A transgenic non-human mammal whose genome comprises a nucleic acid construct, wherein said construct comprises a reporter nucleic acid encoding a reporter operably linked to a promoter comprising an androgen response element (ARE), and said construct further comprises an androgen receptor nucleic acid encoding an androgen receptor, and wherein expression of said reporter nucleic acid is regulated by expression of said androgen receptor nucleic acid. The transgenic non-human mammals can be used as an *in vivo* model for the identification and development of selective androgen receptor modulators (SARMs) for the treatment of cancer or other disorders associated with defective androgen receptor function.